

ABSTRACT

A thruster valve for controlling a flow of high temperature fluid, comprising a valve casing, a graphite liner, a drive rod, and at least one relief hole. The graphite liner is disposed in a through hole within the valve casing. The drive rod being slidably received
5 in drive rod through holes within the graphite liner, such that a seal is formed and maintained between the drive rod and the graphite liner. The drive rod is arranged so as to be driven in an axial direction by an actuator attached to an end of the drive rod arranged outside the valve casing. At least one of the relief holes is formed to
10 extend through the graphite liner and valve casing to communicate the cavity with the exterior of the valve casing provide a drain passage. Thus, leakage of the high temperature fluid is prevented.